

453195.txt
SEQUENCE LISTING

<110> Ligensa, Tanja
Schumacher, Ralf
Weidner, Michael

<120> IGF-1 Receptor Interacting Proteins

<130> 09/453,195

<140> 09/453,195

<141> 1999-12-02

<150> EPO 98122992.5

<151> 1998-12-03

<160> 10

<170> PatentIn Ver. 2.1

<210> 1

<211> 1707

<212> DNA

<213> Homo sapiens

<220>

<223> n at position 186, 187, 203, and 205 is a, t, g, or c.

<400> 1

gaaacccaca ggaggcaacc acactagttt agatcttctg gtgacccac ttctcgctgc 60
tcatgccgct gggactgggg cggcggaaaa aggcgcccc tctagtggaa aatgaggagg 120
ctgagccagg ccgtggaggg ctgggcgtgg gggagccagg gcctctgggc ggaggtgggt 180
cggggnnccc ccaaattgggc ttncncccc ctccccagc cctgcggccc cgcctcgtgt 240
tccacacca gctggcccat ggcagtccca ctggccgcat cgagggcttc accaacgtca 300
aggagctgta tggcaagatc gccgaggcct tccgcctgcc aactgccgag gtgatgttct 360
gcaccctgaa caccacaaa gtggacatgg acaagctcct ggggggcccag atcgggctgg 420
aggacttcat cttcgcccac gtgaaggggc agcgcaagga ggtggagggtg ttcaagtcgg 480
aggatgcact cgggctcacc atcacggaca acggggctgg ctacgccttc atcaagcgca 540

453195.txt

tcaaggaggg cagcgtgatc gaccacatcc acctcatcag cgtgggcgac atgatcgagg 600
 ccattaacgg gcagagcctg ctgggctgcc ggcactacga ggtggcccgg ctgctcaagg 660
 agctgccccg aggccgtacc ttcacgctga agctcacgga gcctcgcaag gccttcgaca 720
 tgatcagcca gcgttcagcg ggtggccgcc ctggctctgg ccacaaactg ggcactggcc 780
 gagggaccct gcggctccga tcccggggcc ccgccacggg ggaggatctg ccctctgcct 840
 ttgaagagaa ggccattgag aagggtgatg acctgctgga gagttacatg ggtatcaggg 900
 acacggagct ggcagccacc atggtggagc tgggaaagga caaaaggaac ccggatgagc 960
 tggccgaggg cctggacgaa cggctgggtg actttgcctt ccctgacgag ttcgtctttg 1020
 acgtctgggg cgccattggg gacgccaagg tcggccgcta ctaggactgc ccccggaacc 1080
 tgcgatgatg acccgggcgc aacctggtgg gggccccag cagggaact gacgtcagga 1140
 cccgagcctc cagcctgagc ctagctcagc agcccaagga cgatggtgag gggaggtggg 1200
 gccaggcccc ctgccccgct ccaactcggt ccattccctc cctggttccc agtctggccg 1260
 ggggtccccg cccccctgtg ccctgttccc cacctacctc agctgggtca ggcacaggga 1320
 ggggagggat cagccaaatt gggcgccac cccgcctcc accactttcc accatcagct 1380
 gccaaactgg tccctctgtc tccctggggc cttgggttct gtttgggggt catgacctc 1440
 ctagtttctt gacgcaggga atacagggga gagggttgtc cttcccccca gcaaatgcaa 1500
 taatgccctc acccctcctg agaggagccc cctccctgtg gagcctgtta cctccgcatt 1560
 tgacacgagt ctgctgtgaa ccccgcaacc tctccccac ctcccatctc tccttccagg 1620
 cccatccctg gccagagca ggaggaggg agggacgatg gcggtgggtt tttgtatctg 1680
 aatttgctgt cttgaacata aagaatc 1707

<210> 2
 <211> 333
 <212> PRT
 <213> Homo sapiens

<220>

<223> Xaa at position 42, 47, and 48 is any one of the twenty naturally occurring amino acids.

<400> 2

```

Met Pro Leu Gly Leu Gly Arg Arg Lys Lys Ala Pro Pro Leu Val Glu
 1           5           10           15

Asn Glu Glu Ala Glu Pro Gly Arg Gly Gly Leu Gly Val Gly Glu Pro
      20           25           30

Gly Pro Leu Gly Gly Gly Gly Ser Gly Xaa Pro Gln Met Gly Xaa Xaa
      35           40           45

Pro Pro Pro Pro Ala Leu Arg Pro Arg Leu Val Phe His Thr Gln Leu
 50           55           60

Ala His Gly Ser Pro Thr Gly Arg Ile Glu Gly Phe Thr Asn Val Lys
 65           70           75           80

Glu Leu Tyr Gly Lys Ile Ala Glu Ala Phe Arg Leu Pro Thr Ala Glu
      85           90           95

Val Met Phe Cys Thr Leu Asn Thr His Lys Val Asp Met Asp Lys Leu
      100          105          110

Leu Gly Gly Gln Ile Gly Leu Glu Asp Phe Ile Phe Ala His Val Lys
      115          120          125

Gly Gln Arg Lys Glu Val Glu Val Phe Lys Ser Glu Asp Ala Leu Gly
      130          135          140

Leu Thr Ile Thr Asp Asn Gly Ala Gly Tyr Ala Phe Ile Lys Arg Ile
145          150          155          160

Lys Glu Gly Ser Val Ile Asp His Ile His Leu Ile Ser Val Gly Asp
      165          170          175

Met Ile Glu Ala Ile Asn Gly Gln Ser Leu Leu Gly Cys Arg His Tyr
      180          185          190

Glu Val Ala Arg Leu Leu Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr
      195          200          205

Leu Lys Leu Thr Glu Pro Arg Lys Ala Phe Asp Met Ile Ser Gln Arg
      210          215          220

Ser Ala Gly Gly Arg Pro Gly Ser Gly Pro Gln Leu Gly Thr Gly Arg
225          230          235          240

```

453195.txt

Gly	Thr	Leu	Arg	Leu	Arg	Ser	Arg	Gly	Pro	Ala	Thr	Val	Glu	Asp	Leu
				245					250					255	
Pro	Ser	Ala	Phe	Glu	Glu	Lys	Ala	Ile	Glu	Lys	Val	Asp	Asp	Leu	Leu
			260					265					270		
Glu	Ser	Tyr	Met	Gly	Ile	Arg	Asp	Thr	Glu	Leu	Ala	Ala	Thr	Met	Val
		275					280					285			
Glu	Leu	Gly	Lys	Asp	Lys	Arg	Asn	Pro	Asp	Glu	Leu	Ala	Glu	Ala	Leu
	290					295					300				
Asp	Glu	Arg	Leu	Gly	Asp	Phe	Ala	Phe	Pro	Asp	Glu	Phe	Val	Phe	Asp
305					310					315					320
Val	Trp	Gly	Ala	Ile	Gly	Asp	Ala	Lys	Val	Gly	Arg	Tyr			
				325					330						

<210> 3

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<223> n at position 369 is a, t, g, or c.

<400> 3

```

gccgaggaag gagaaggggc taaaccttgg agagtggatg gctcaaagga ttctcagatc 60
acacctcggg aggatcatgg gcaggagagc ctgttggcag ggctccacgg aacgcatcca 120
ccaaagacaa ggcagaaagt cactgcccaa gccggaggcc ccgggggatcc catgcttttt 180
tcaagcccag agacagatga gaagcttttt atatgtgcgc agtgtggcaa aaccttcaac 240
aatacctcca acctgagaac gcaccagcgg atccacactg gcgagaagcc ctacatgtgt 300
tccgagtgtg gcaagagttt ctcccggagc tccaaccgca tccggcacga gcgcatccac 360
ctggaagana agcactctga                                     380

```

<210> 4

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<223> Xaa at position 123 is any one of the twenty naturally occurring amino acids.

<400> 4

Ala Glu Glu Gly Glu Gly Ala Lys Pro Trp Arg Val Asp Gly Ser Lys
1 5 10 15

Asp Ser Gln Ile Thr Pro Arg Glu Asp His Gly Gln Glu Ser Leu Leu
20 25 30

Ala Gly Leu His Gly Thr His Pro Pro Lys Thr Arg Gln Lys Val Thr
35 40 45

Ala Gln Ala Gly Gly Pro Gly Asp Pro Met Leu Phe Ser Ser Pro Glu
50 55 60

Thr Asp Glu Lys Leu Phe Ile Cys Ala Gln Cys Gly Lys Thr Phe Asn
65 70 75 80

Asn Thr Ser Asn Leu Arg Thr His Gln Arg Ile His Thr Gly Glu Lys
85 90 95

Pro Tyr Met Cys Ser Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn
100 105 110

Arg Ile Arg His Glu Arg Ile His Leu Glu Xaa Lys His Ser
115 120 125

<210> 5

<211> 678

<212> DNA

<213> Homo sapiens

<400> 5

atgtcgagac cccggaagag gctggctggg acttctggtt cagacaaggg actatcagga 60
aaacgcacca aaactgagaa ctcaggtgag gcattagcta aagtggagga ctccaaccct 120
cagaagactt cagccactaa aaactgtttg aagaatctaa gcagccactg gctgatgaag 180
tcagagccag agagccgcct agagaaaggt gtagatgtga agttcagcat tgaggatctc 240
aaagcacagc ccaaacagac aacatgctgg gatggtgttc gtaactacca ggctcggaac 300

453195.txt

ttccttagag ccatgaagct gggagaagaa gccttcttct accatagcaa ctgcaaagag 360
 ccaggcatcg caggactcat gaagatcgtg aaagaggctt acccagacca cacacagttt 420
 gagaaaaaca atccccatta tgacccatct agcaaagagg acaaccctaa gtggtccatg 480
 gtggatgtac agtttgttcg gatgatgaaa cgtttcattc ccctgggtga gctcaaatcc 540
 tatcatcaag ctcaaaagc tactggtggc cccttaaaaa atatggttct cttcactcgc 600
 cagagattat caatccagcc cctgaccag gaagagtttg attttgtttt gagcctggag 660
 gaaaaggaac caagttaa 678

<210> 6

<211> 225

<212> PRT

<213> Homo sapiens

<400> 6

Met Ser Arg Pro Arg Lys Arg Leu Ala Gly Thr Ser Gly Ser Asp Lys
 1 5 10 15

Gly Leu Ser Gly Lys Arg Thr Lys Thr Glu Asn Ser Gly Glu Ala Leu
 20 25 30

Ala Lys Val Glu Asp Ser Asn Pro Gln Lys Thr Ser Ala Thr Lys Asn
 35 40 45

Cys Leu Lys Asn Leu Ser Ser His Trp Leu Met Lys Ser Glu Pro Glu
 50 55 60

Ser Arg Leu Glu Lys Gly Val Asp Val Lys Phe Ser Ile Glu Asp Leu
 65 70 75 80

Lys Ala Gln Pro Lys Gln Thr Thr Cys Trp Asp Gly Val Arg Asn Tyr
 85 90 95

Gln Ala Arg Asn Phe Leu Arg Ala Met Lys Leu Gly Glu Glu Ala Phe
 100 105 110

Phe Tyr His Ser Asn Cys Lys Glu Pro Gly Ile Ala Gly Leu Met Lys
 115 120 125

Ile Val Lys Glu Ala Tyr Pro Asp His Thr Gln Phe Glu Lys Asn Asn
 130 135 140

453195.txt

Pro His Tyr Asp Pro Ser Ser Lys Glu Asp Asn Pro Lys Trp Ser Met
145 150 155 160

Val Asp Val Gln Phe Val Arg Met Met Lys Arg Phe Ile Pro Leu Ala
165 170 175

Glu Leu Lys Ser Tyr His Gln Ala His Lys Ala Thr Gly Gly Pro Leu
180 185 190

Lys Asn Met Val Leu Phe Thr Arg Gln Arg Leu Ser Ile Gln Pro Leu
195 200 205

Thr Gln Glu Glu Phe Asp Phe Val Leu Ser Leu Glu Glu Lys Glu Pro
210 215 220

Ser
225

<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer TIP2c-s

<400> 7
gaaacccaca ggaggcaa

18

<210> 8
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer TIP2b-r

<400> 8
ggtcattcatc gcagggtc

18

<210> 9
<211> 33

453195.txt

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer Hcthy-s

<400> 9

agcttgcggc cgcagatgtc gagaccccg aag

33

<210> 10

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer Hcthy-r

<400> 10

agcttgcggc cgcgaattct taacttggtt ccttttcctc

40

453195.txt